National Mathematics Magazine

INDEX TO VOLUME XIV

October, 1939 to May, 1940

Topic	*Author*	*Page*
A Certain Geometrical Calculus by Van der Wærden in Connection with the Elliptic Cubic	Arnold Emch	439
Additive Entities, An Extension of Farey Series	Harold Sinclair Grant	256
Advanced Calculus, by I. S. Sokolnikoff. (Review)	R. V. Churchill	424
Analytic Geometry and Calculus (New Edition), by Woods and Bailey. (Review)	Jesse Pierce	119
Applications of Complex Numbers to Geometry of Circles	Allen A. Shaw	26
Applied Mathematics in Chemical Engineering, by Thomas K. Sherwood and Charles E. Reed. (Review)	Turner L. Smith	172
Appreciation of Sophie Germain	Sister M. Thomas à Kempis	81
Are There Any Questions?	Peter Tullier	278
Build Up of Current in an Iron Clad Circuit	Lynn L. Merrill	100
Calculation of Planetary Motions	Edgar W. Woolard	179
Calculus, by F. H. Miller. (Review)	Frank Edwin Wood	61
College Algebra, (Fourth Edition), by H. L. Rietz and A. R. Crathorne. (Review)	Edwin Comfort	358
Complex Variable and Operational Calculus, by N. M. McLachlan. (Review)	W. E. Byrne	425
Concepts of the Calculus, by Carl B. Boyer. (Review)	W. E. Byrne	427
Concerning Upper and Lower Bounds of the Roots of a Real Algebraic Equation	E. C. Kennedy	76
Configuration Associated with a Tetrahedron	J. W. Peters	67
Coordinate Geometry, by L. P. Eisenhart. (Review)	H. P. Evans	356
Descriptive Geometry, by A. V. Millar and K. G. Shields. (Review)	John W. Bradshaw	358
Development of the Minkowski Geometry of Numbers, by Harris Hancock. (Review)	J. V. Uspensky	423
Differential and Integral Calculus, (Second Edition), by John Haven Neelley and Joshua Irving Tracey. (Review)	H. P. Thielman	228
Distance Geometries, A Study of the Development of Abstract Metrices, by Leonard M. Blumenthal. (Review)	C. B. Tompkins	116
Does Mathematics Work?	Irby C. Nichols	298
Fabre and Mathematics and Other Essays, by Lao Genevra Simons. (Review)	Marion E. Stark	496
First Course in Theory of Numbers, by H. N. Wright. (Review)	G. F. Cramer	294
First Year College Mathematics, by Louis C. Plant and Theodore R. Running. (Review)	L. D. Gore	428
Foot-notes to the Chapter on "Theory of Equations"	Emory P. Starke	408

Topic	*Author*	*Page*
Formal Logic: A Modern Introduction, by Albert A. Bennett and Charles A. Baylis. (Review)	J. C. C. McKinsey	226
Formula for $\sum_{x=1}^{x=n} x^p$	J. Rosenbaum	193
Freshman Mathematics, by G. W. Mullins and D. E. Smith. (Review)	M. S. Robertson	229
General Analysis, Part II, (The Fundamental Notions of General Analysis), by Eliakim Hastings Moore, with the cooperation of Raymond Walter Barnard	L. W. Griffiths	295
History of American Mathematical Journals, (Part I)	Benjamin F. Finkel	197
History of American Mathematical Journals, (Part II)	Benjamin F. Finkel	261
History of American Mathematical Journals, (Part III)	Benjamin F. Finkel	317
History of American Mathematical Journals, (Part IV)	Benjamin F. Finkel	383
History of American Mathematical Journals, (Part V)	Benjamin F. Finkel	461
Introduction to Modern Geometry, by Levi S. Shively. (Review)	J. R. Musselman	175
Introduction to the Theory of Equations, by Louis Weisner. (Review)	Ernest L. Mackie	494
Introductory Mathematical Analysis, by Joel S. Georges and Jacob M. Kinney. (Review)	W. T. Stratton	493
In Union is Strength	F. L. Wren	366
Language of Mathematics	S. T. Sanders	178
Literature Received by the Editorial Board During Period July 1, 1938—July 1, 1939 (Volume XIII)		359
Literature Received by the Editorial Board During Period July 1, 1939—April 1, 1940 (Volume XIV)		382
Literature Received by the Editorial Board During Period April 1, 1940—June 1, 1940 (Volume XIV)		496
Mathematical Adventures, by Fletcher Durell. (Review)	Earl C. Kiefer	426
Mathematical Analysis for Economists, by R. G. D. Allen. (Review)	H. T. Davis	60
Mathematical Methods in Engineering, by Theodore V. Karman and Maurice A. Biot (Review)	W. E. Byrne	424
Mathematical Recreations and Essays (11th Edition), by W. W. Rouse Ball, (Revised by H. S. M. Coxeter). (Review)	H. T. Davis	357
Mathematical World News	L. J. Adams	46
Mathematical World News	L. J. Adams	103
Mathematical World News	L. J. Adams	160
Mathematical World News	L. J. Adams	214
Mathematical World News	L. J. Adams	279
Mathematical World News	L. J. Adams	345
Mathematical World News	L. J. Adams	412

Topic	*Author*	*Page*
Mathematical World News	L. J. Adams	477
Meaning of Mathematics (Second Edition), by Cassius Jackson Keyser. (Review)	Norma Stelford	427
Medieval Number Symbolism, Its Sources, Meaning, and Influence on Thought and Expression, by Vincent Foster Hopper. (Review)	William Jaffe	176
More About Better Mathematics	Joseph Seidlin	96
New First Course in the Theory of Equations, by Leonard E. Dickson. (Review)	H. A. Simmons	291
Note on a Diophantine Equation	A. A. Aucoin	459
Note on Integration	Carl A. Ludeke	253
Note on Observed Geometric Series	A. B. Soble	372
Note on the Diophantine Equation $Ax^2+y^2=z^2$	William H. Erskine	311
Note on the Distribution of the Median	Edward Paulson	379
Note on the Rational Plane Cubic Curve	G. R. Kraus and J. H. Neelley	134
Note on the 3-Bar Curve	Robert C. Yates	190
Note to the Theory of Equations	H. T. R. Aude	308
On Brocard's Ellipse	Vincenzo Cavallaro	445
On the Discovery of the Logarithmic Series and Its Development in England up to Cotes	Josef Ehrenfried Hofmann	37
On the Rational Plane Quartic Curve with Triple Point	H. E. Arnold and A. R. Parente	138
Philosophy and Mathematics	Kurt F. Leidecker	122
Plane Trigonometry, by Stratton and Daugherty. (Review)	H. P. Pettit	173
Plane Trigonometry by Fred W. Sparks and Paul K. Rees. (Review)	H. S. Kaltenborn	493
Polygons as Fundamental Elements in the Geometry of Plane Cubic Curves	J. M. Feld	367
Proofs and Solutions of Exercises Used in Plane Geometry Tests, by Hale Pickett. (Review)	Harold Fawcett	292
Questions in Educating Mathematics Teachers for the Secondary School	Edwin G. Olds	271
Relativity	B. Hoffmann	5
Remedial Reading in College Mathematics	A. L. O'Toole	329
Representation of Integers in Forms	Ralph Hull	235
Research and Statistical Methodology, Books and Reviews, 1933-1938, by Oscar Krisen Buros. (Review)	J. M. Hughes	231
Reviews and Examinations in Algebra, by Oswald Tower and Winfield Sides. (Review)	M. J. Newell	495
Root Isolation Through Curve Analysis	E. C. Kennedy	373
Ruler and Compass Mapping Problem Associated with the Equilateral Triangle	J. J. L. Hinrichsen	141
Science in a Tavern, by Charles S. Slichter. (Review)	Jewell Hughes Bushey	491
Second Lesson in the History of Mathematics	G. A. Miller	144
Series of Line Involutions in S_3 Defined as Point Transformations of a V_4^2 in S^5 Into Itself	C. R. Wylie, Jr.	125
Short History of Science, by W. T. Sedgwick and H. W. Tyler, (Revised by H. W. Taylor and R. P. Bigelow). (Review)	Louis C. Karpinski	429

Topic	*Author*	*Page*
Solution of Numerical Equations	Clifford Bell	435
Stephen Timoshenko—60th Anniversary Volume. (Review)	John W. Cell	232
Suggestions for Reducing Mortality in Freshman Mathematics	W. P. Heinzman	211
Synthetic Projective Geometry, by R. G. Sanger. (Review)	John R. Mayor	292
Teaching Arithmetic in the Elementary School, by Robert Lee Morton. (Review)	Eugene W. Hellmich	490
The Drawing of Quadric Surfaces	Neil Little	472
Theoremes de Geometrie Elementaire	V. Thébault	313
The Rectifying Curve	Roy A. Mather	449
The Tower	Norman E. Rutt	234
The True Reason	Mario O. Gonzales	213
Thomas Jefferson and Mathematics, by David Eugene Smith. (Review)	Mary W. Newson	492
Three-Circle Problems in Modern Geometry	C. D. Smith	299
To Have and to Hold	Robert C. Yates	2
To Our Colleagues in Mathematics	W. D. Cairns	434
Trigonometry, (Revised), by N. J. Lennes and A. S. Merrill, (Review)	M. S. Knebelman	62
Vector Analysis, by J. H. Taylor. (Review)	E. J. Moulton	120
Visual Aids in Teaching Geometry	Jessie May Hoag	153
We Discover the Meaning of Curvature	Edwin G. Olds	469
What Price Isolation?	Joseph Seidlin	66
Why Logarithms to the Base e Can Justly be Called Natural Logarithms	John Ellis Evans	91

PROBLEMS PROPOSED

Of each pair of successive numbers followed by a semicolon, or a period, the first denotes the NUMBER of the problem proposed, the second, the PAGE on which it is stated.

Altshiller-Court, Nathan...317,59; 322,114; 226,162; 335,224; 362,488.
Arany, Daniel.....292,167; 331,171; 338,225; 345,354.
Aucoin, A. A.....321,114.
Aude, H. T. R.....316,59; 283,110; 320,114; 297,218; 303,223.
"A Wag".....359,488.
Bush, L. E.....288,166.
Byrne, W. E.....365,489.
Clarke, Walter B.....312,58; 272,105; 324,115; 325,170; 294,216; 302,222; 259,281; 354,422.
Duncan, Dewey C.....224,51.
Epstein, Leo F.....311,58.
Farnell, Albert.....285,111; 308,286.
Foster, C. Bull.....344,290.
Gaines, R. E.....299,220.
Grant, H. S.....315,58; 305,283.
Grossman, Howard D.....293,216; 298,219; 352,421; 363,488.
Janes, W. C.....323,114.
Kac, M.....282,109.
Kennedy, E. C.....330,171; 346,354.
Luke, Yudell.....287,112; 304,282.
Lyttleton, Raymond A....105,50.

MacKay, D. L.....314,58; 280,107; 318,114; 327,170; 350,355; 358,487; 360,488.
Mallory, Virgil S.....339,289.
Mills, C. N.....306,284.
Mœssner, Alfred.....348,355.
Nelson, Cyril.....357,487.
Parker, W. V.....321,114; 296,217; 337,225; 309,287.
Peters, J. W.....290,166.
Robertson, M. S.....273,414; 351,421.
Rosenbaum, J.....279,106; 328,171; 284,215.
Simmons, H. A.....310,58.
Smith, H. L.....334,224.
Starke, E. P.....307,285; 341,290; 361,488.
Tremblay, Althéod.....342,290.
Thébault, V.....226,52; 278,54; 289,112; 295,113; 319,114; 245,163; 286,164; 301,221; 336,225; 340,289; 349,355; 355,422.
Thomas, Paul D.....333,224; 347,355; 353,421.
Trigg, C. W.....277,53; 313,58; 332,224; 356,422; 364,489.
Wishard, G. W.....300,168; 326,170.
Yates, Robert C.....281,55; 329,171; 343,290.

PROBLEMS SOLVED

Of each pair of successive numbers followed by a semicolon, or a period, the first denotes the NUMBER of the problem proposed, the second, the PAGE on which it is solved.

Alrich, G. F.....282,110.
Altshiller-Court, Nathan...226,162; 317,349; 322,351; 335,420.
Arany, Daniel.....331,419.
Aude, H. T. R.....283,111; 289,113; 303,224.
Ayres, Frank, Jr.....331,419.
Barinaga, J.....267,162; 269,162; 270,162; 271,162.
Brevik, Bernice.....341,486.
Borok, Eli.....339,486.
Bush, L. E.....288,166.
Campbell, George W.....339,486.
Christensen, Annie.....289,113; 303,224; 310,289; 326,353; 341,486.
Clarke, Walter B.....282,110; 286,165; 288,166; 294,217; 298,219; 302,223; 303,224; 316,348; 317,349; 318,350; 320,351; 325,353; 337,421.
Crain, Karleton W.....304,283; 341,486.
Davies, Richard W.....339,486.
Diebel, Henry G.....304,283.
Editors.....323,417; 338,484.
Epstein, Leo F.....292,167; 311,287.
Evans, John Ellis.....336,420; 337,421.
Farnell, Albert.....282,110; 287,112; 286,165; 292,167; 304,283; 308,287; 310,289; 325,353; 336,421.
Felder, Virginia.....292,167.
Gaines, R. E.....299,220.
Gehman, H. M.....308,287; 310,288.
Gentry, F. C.....105,50.
Goormaghtigh, R.....326,479; 331,479.
Greenwood, R. E., Jr.....310,289; 339,486.
Grant, H. S.....305,283; 315,415.

Grossman, Howard D.....298,219.
Grotts, S. Haywood.....282,110.
Hausmann, S. J.....318,349; 320,351; 325,353; 326,353; 329,418.
Heyman, Mark.....310,289.
Hitt, James K.....292,167.
Kelly, L. M.....281,57; 282,109; 289,113; 288,166; 290,166; 292,167; 298,219.
Kennedy, E. C.....283,110; 327,354; 330,418; 339,486; 343,487.
Kesler, Ray.....339,486.
Lang, Annie Lyles.....292,167.
Lang, Gaines B.....308,286.
Lewis, Eunice.....320,351; 325,353.
Luke ,Yudell.....287,112; 304,283.
MacKay, D. L.....281,57; 280,107; 282.109; 290,166; 292,167; 300,168; 294,217; 298,219; 302,223; 304,283; 309,287; 318,350; 320,351; 325,353; 326,353; 327,354; 329,418; 331,419; 337,421; 314,479; 332,482; 339,486; 341,486; 343,487.
Mahrenholz, Johannes.....277,53; 278,55; 281,57; 282,110; 285,111; 289,113; 295,113; 290,166; 292,167; 284,215; 294,217; 298,219; 301,221; 302,223; 304,283; 308,287; 309,288; 273,414; 328,480; 332,483; 325,479; 326,479; 329,479; 331,479; 336,479; 337,479.
Marer, Fred.....318,350.
Merrill, L. L.....292,167.
Mills, C. N.....306,285.
Nance, Olen.....339,486; 343,487.
Nowetcheski, L.....292,167.
Parker, W. V.....309,288; 337,421; 341,486.
Peters, J. W.....290,166.
Quijano, Jorge.....337,421.
Roberts, W. L.....304,282; 339,485; 325,479.
Robertson, M. S.....341,486.
Rosenbaum, J.....281,55; 279,106; 282,110; 307,285; 339,486.
Rung, Janet.....310,288; 337,421.
Sherman, Naomi.....339,486.
Short, W. T.....294,216; 341,486.
Simmons, H. A.....310,289.
Simmons, Leo.....282,110.
Steininger, C. L.....281,56; 329,418; 343,487.
Stewart, J. C.....311,287.
Templeton, Charles.....292,167; 304,283.
Thébault, V.....226,53; 278,55; 289,113; 295,113; 286,165; 301,222; 319,351; 336,421.
Thomas, Paul D.....282,110; 286,164; 304,383; 317,348; 320,351; 322,352; 337,421.
Trigg, C. W.....224,51; 226,52; 268,53; 277,54; 278,54; 281,57; 272,105; 280,108; 282,110; 283,111; 285,112; 287,112; 289,113; 295,113; 245,163; 286,165; 288,166; 290,166; 292,167; 284,215; 294,217; 296,217; 297,218; 298,219; 302,222; 303,223; 259,281; 304, 283; 306,284; 307, 286; 308,287; 309,288; 310,289; 313,347; 317,349; 318,350; 319,350; 320,351; 322,352; 325,352; 327,353; 335,420; 336,421; 337,421; 332,483; 334,483; 339,486; 341,486; 343,487.
Wescott, M. E.....285,112.
Wishard, G. W.....326,353.
Yates, Robert C.....281,57; 343,487.